

Report No.:

Test Time: 2014/4/3 13:33

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: VT-1500SKU 4824

Current: 0.087A

Power Factor: 0.933

Voltage: 220V

Power: 17.9W

Photometric Results

CIE Class: Direct

Measurement Flux: 985.1 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H110.9

Vertical Diffuse Angle(50%): V110.3

Luminaire Efficacy Rating (LER): 55

Max. Intensity: 351.99 cd

Total Rated Lamp Lumens: 985.1 lm

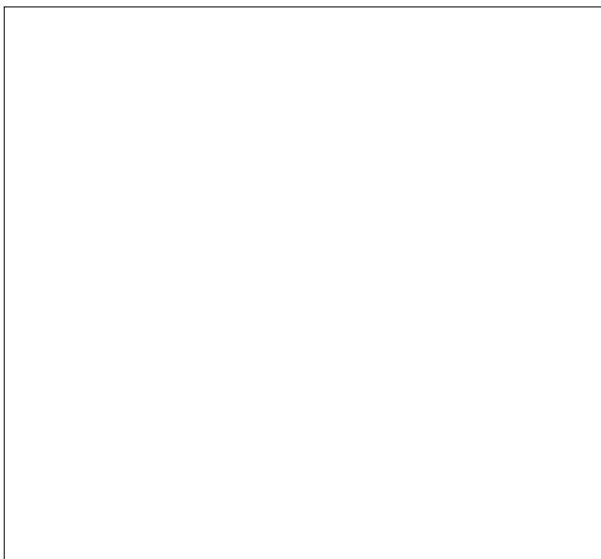
Efficiency: 100%

Upward Ratio: 1%

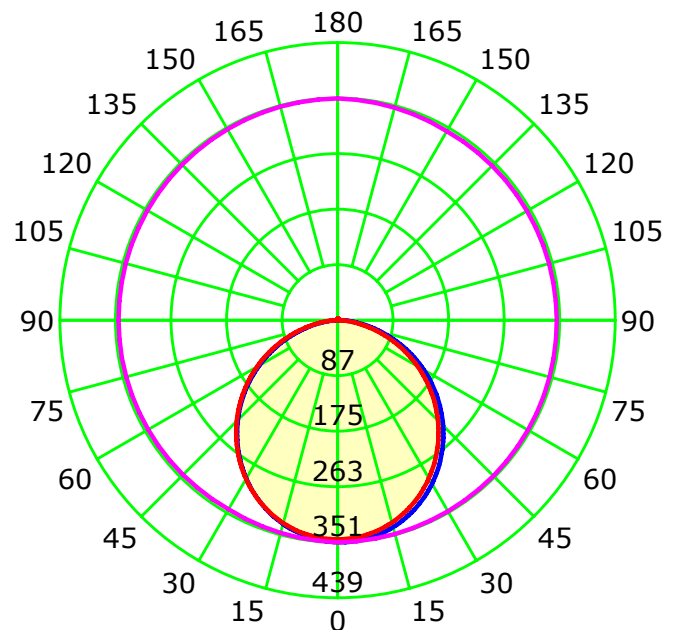
Central Intensity: 351.84 cd

Pos of Max. Intensity: H0 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

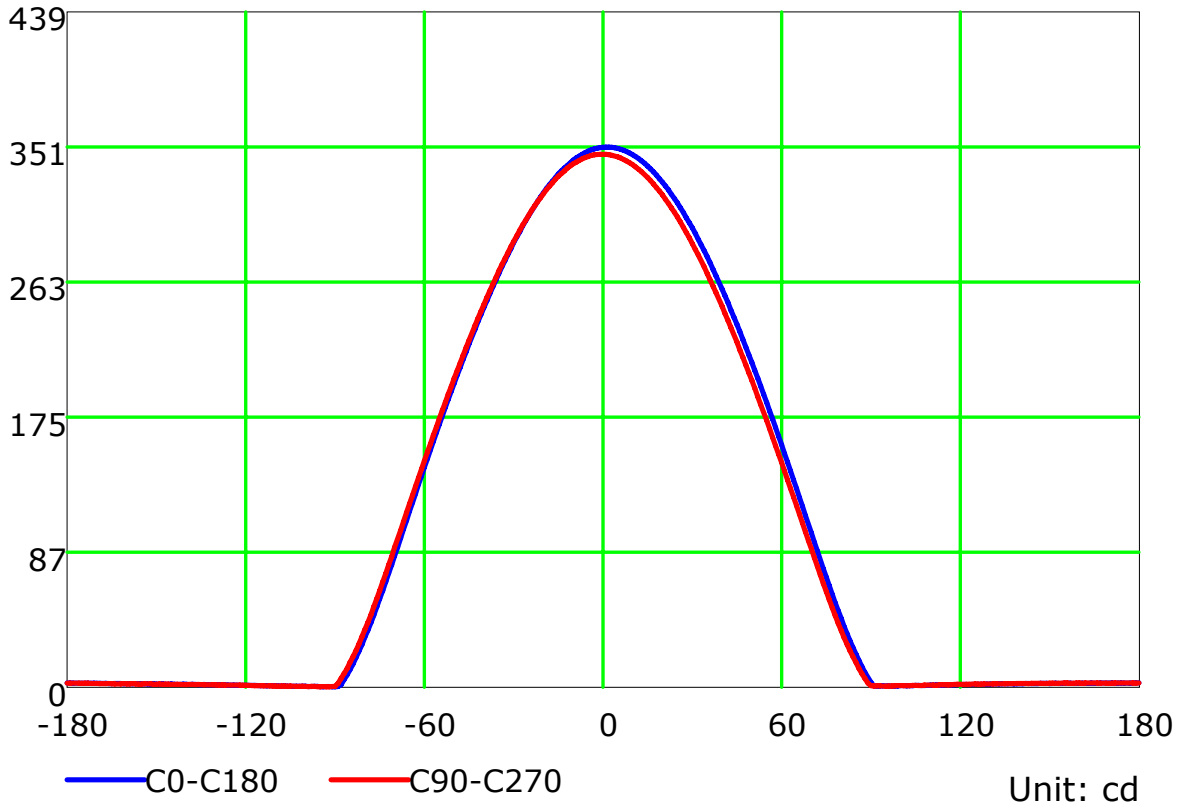
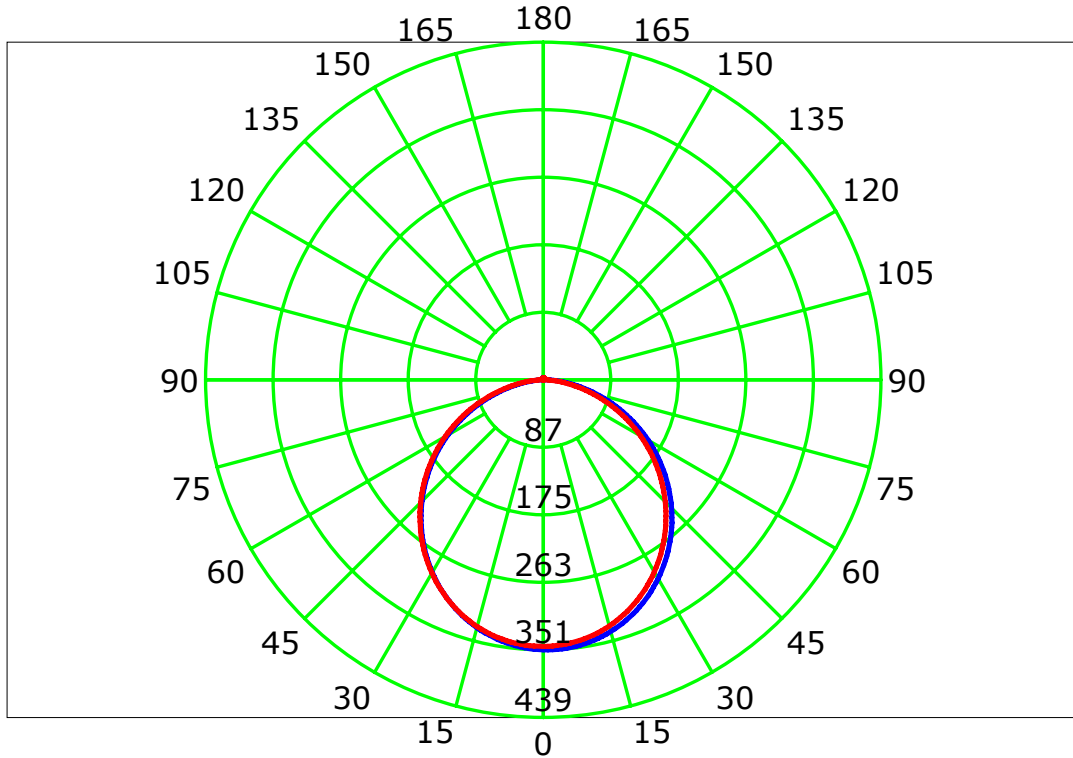
Test Device: GPM-1800B

Distance: 8.038 m

Humidity:

Inspector:

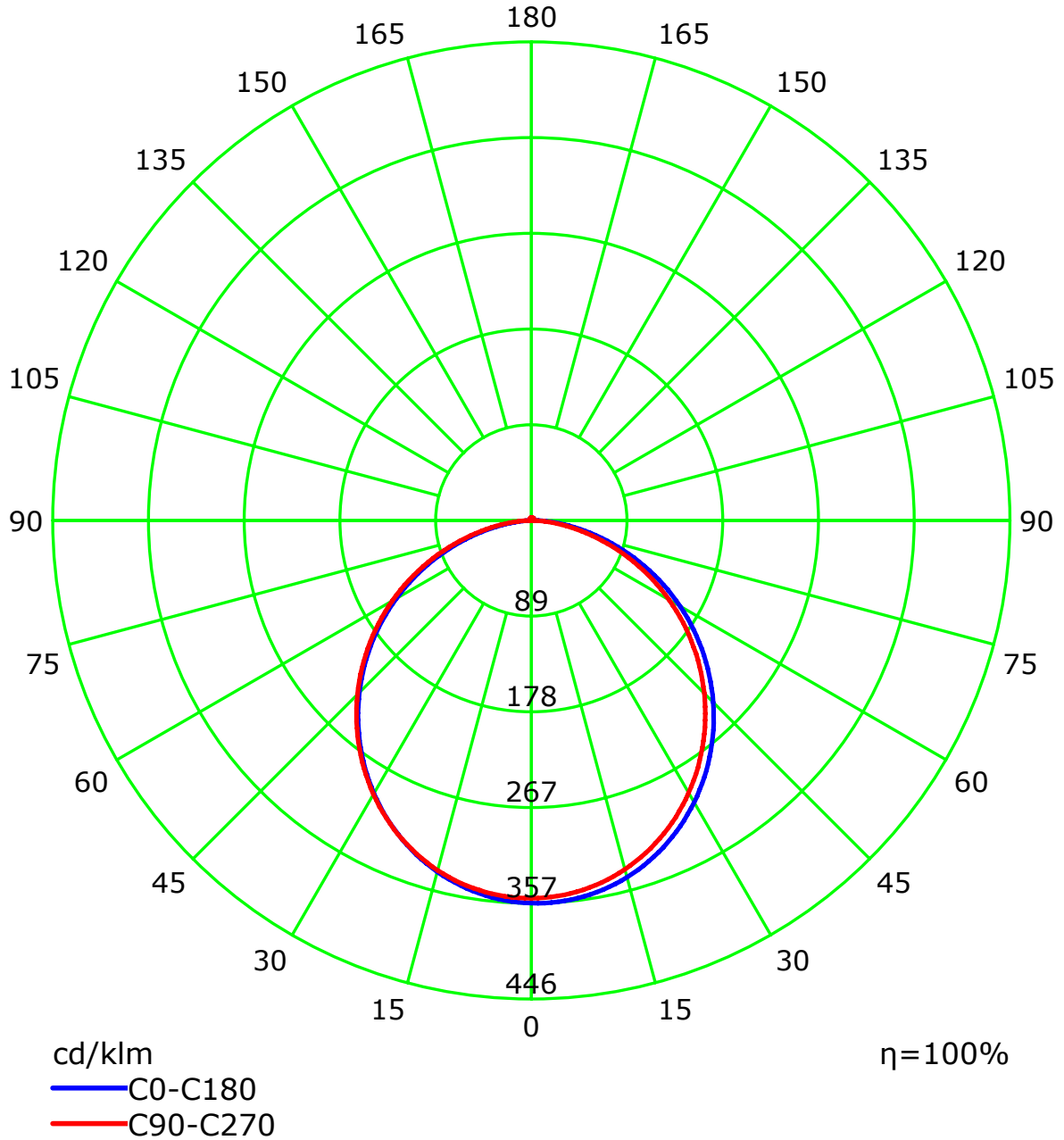
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Luminous Intensity Distribution Curve(cd/klm)



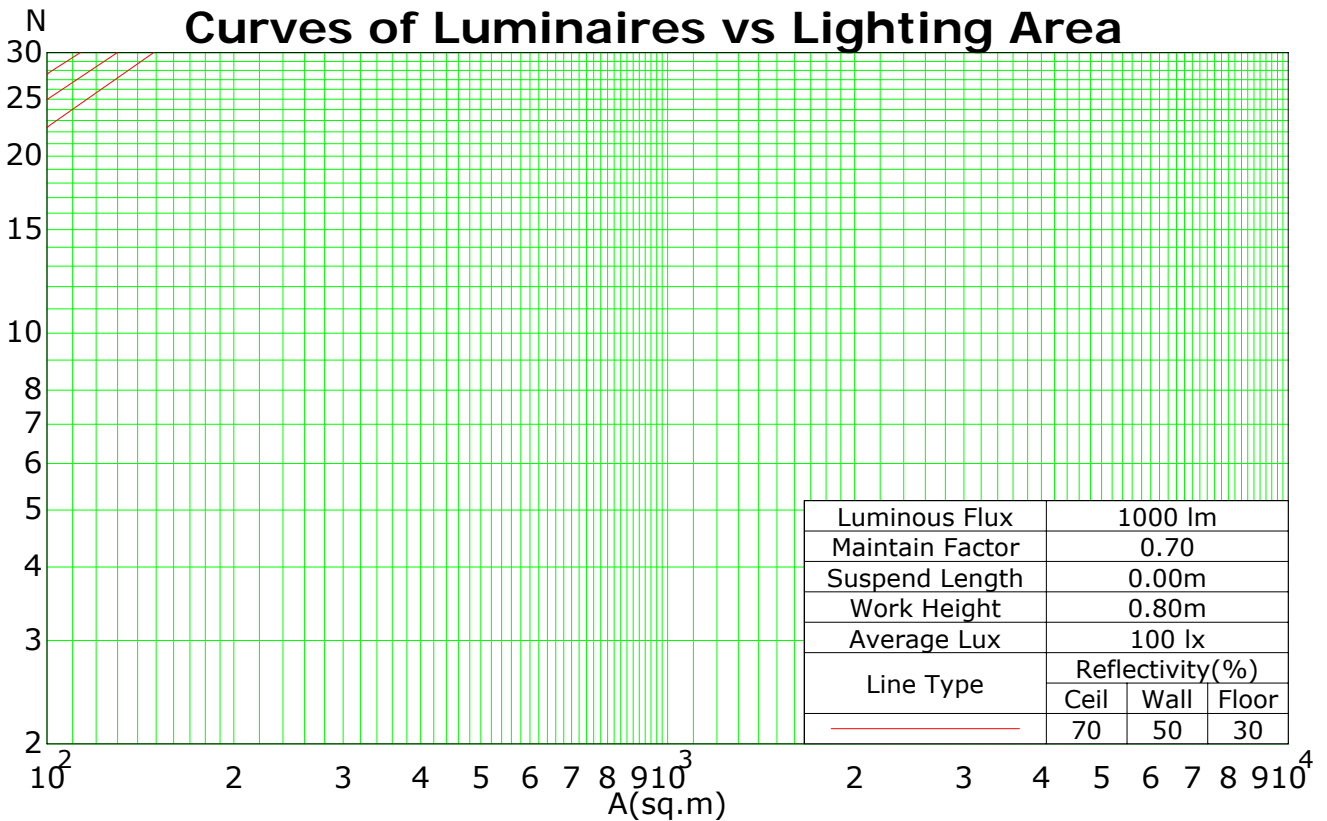
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	84	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	61	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

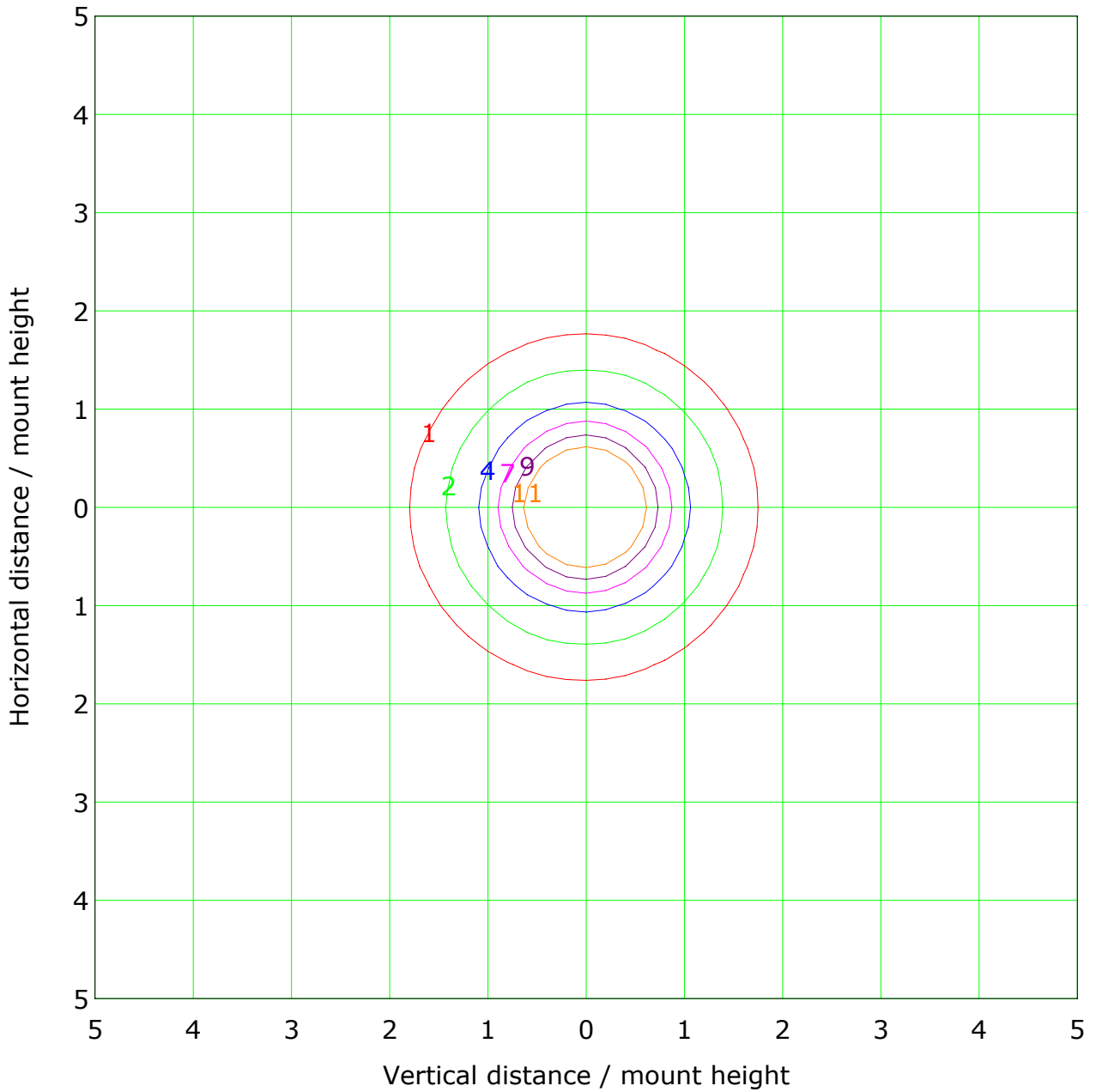
Spacing Criteria (0-180): 1.24
 Spacing Criteria (90-270): 1.24
 Spacing Criteria (Diagonal): 1.35



C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

IsoLux Plot



Mounting Height: 4.0m		Max Lux(100%): 22.0 lx
<ul style="list-style-type: none"> — (5%): 1.1 lx — (20%): 4.4 lx — (40%): 8.8 lx — (100%): 22.0 lx 	<ul style="list-style-type: none"> — (10%): 2.2 lx — (30%): 6.6 lx — (50%): 11.0 lx — (150%): 33.0 lx 	

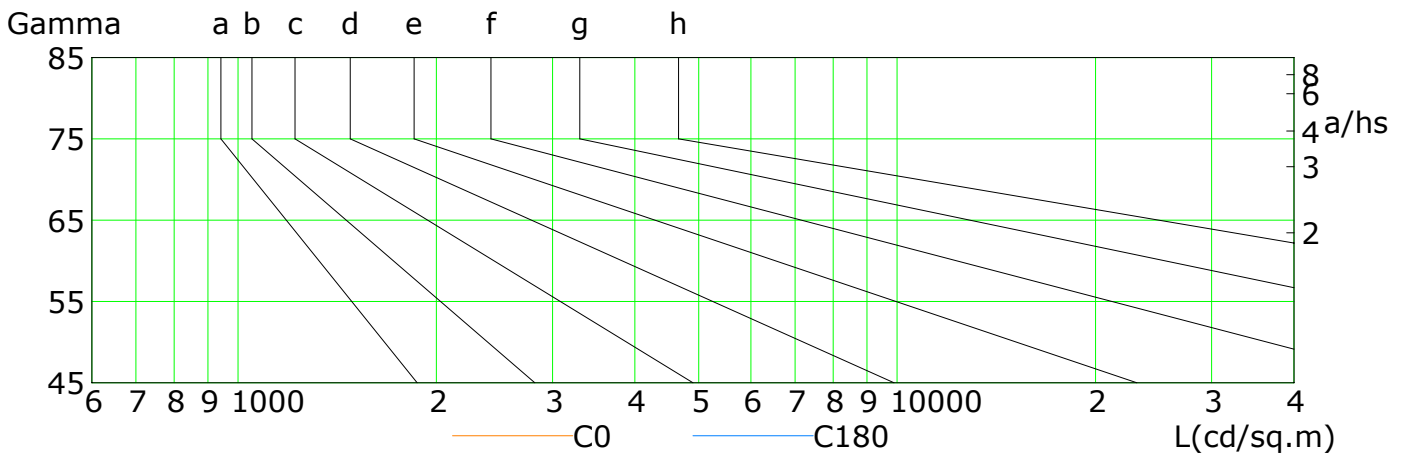
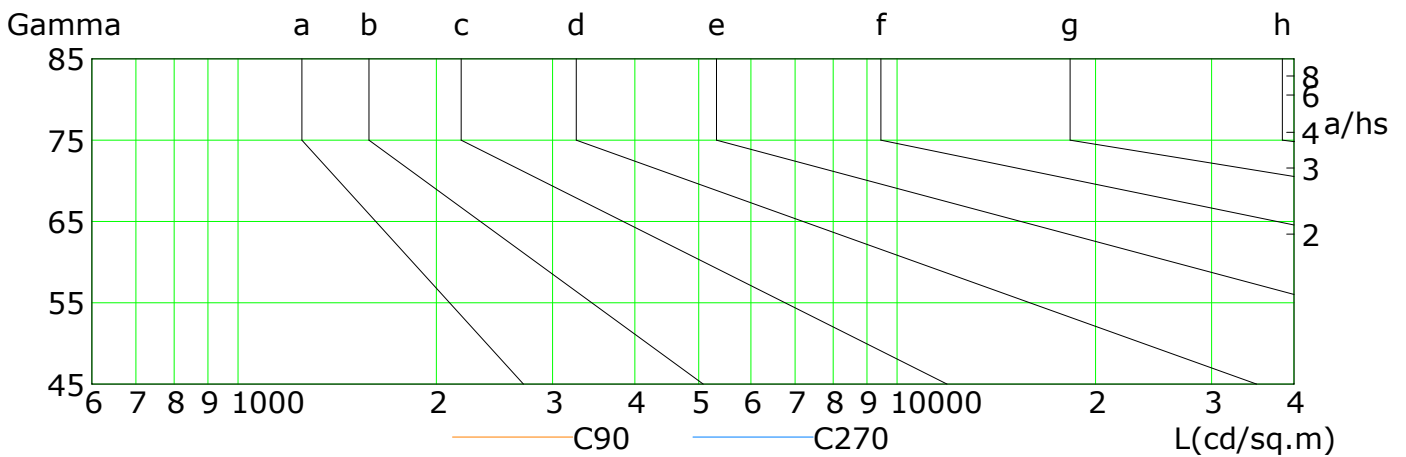
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)								
		2000	1000	500	<=300					
1.15	A									
1.50	B									
1.85	C									
2.20	D									
2.55	E									

a b c d e f g h



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	236	212	185	158	130	101	72	45	22
C90	225	200	174	146	118	90	62	37	16
C180	224	198	171	143	115	86	58	33	11
C270	226	201	175	148	120	91	63	38	16

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

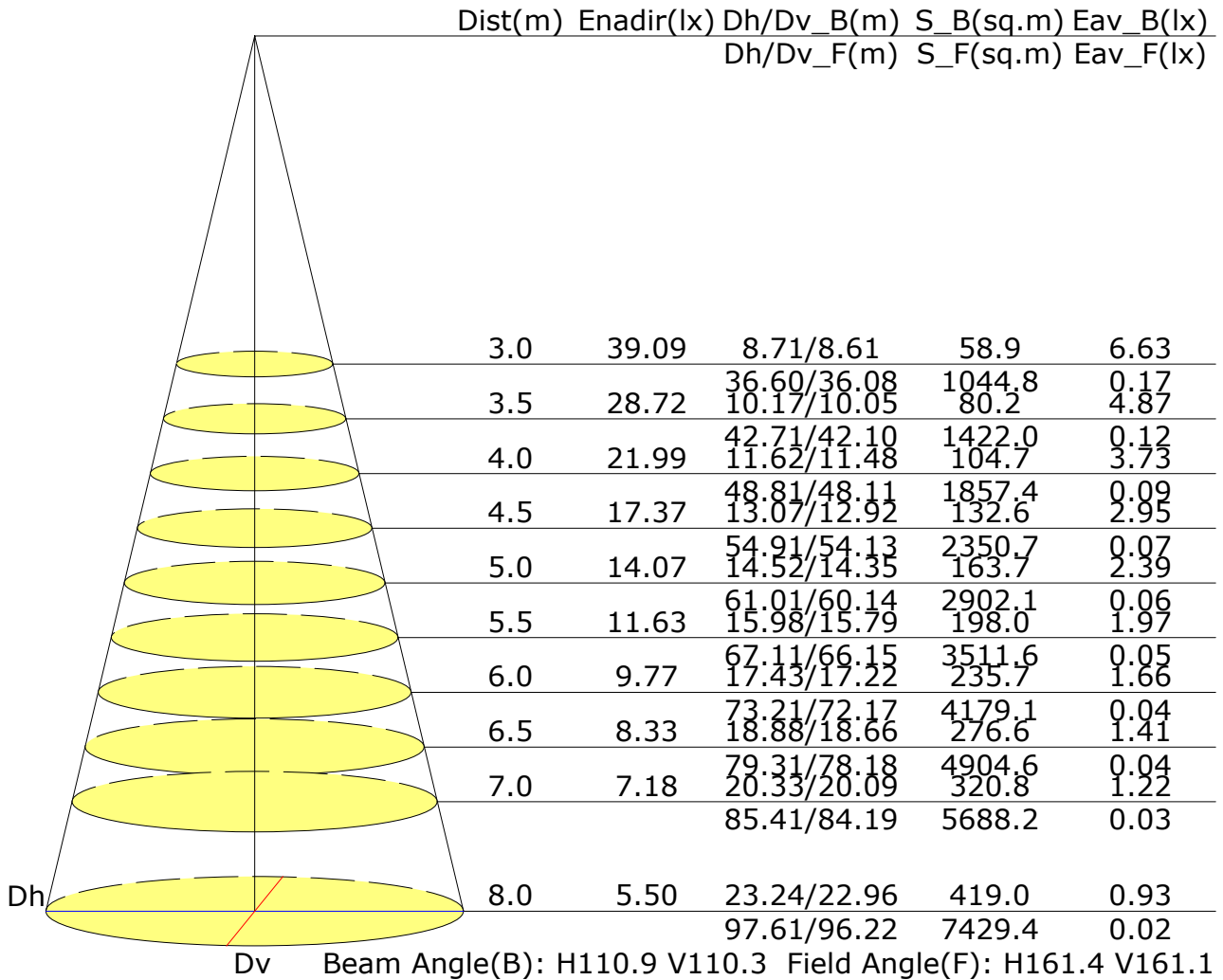
Test Device: GPM-1800B

Distance: 8.038 m

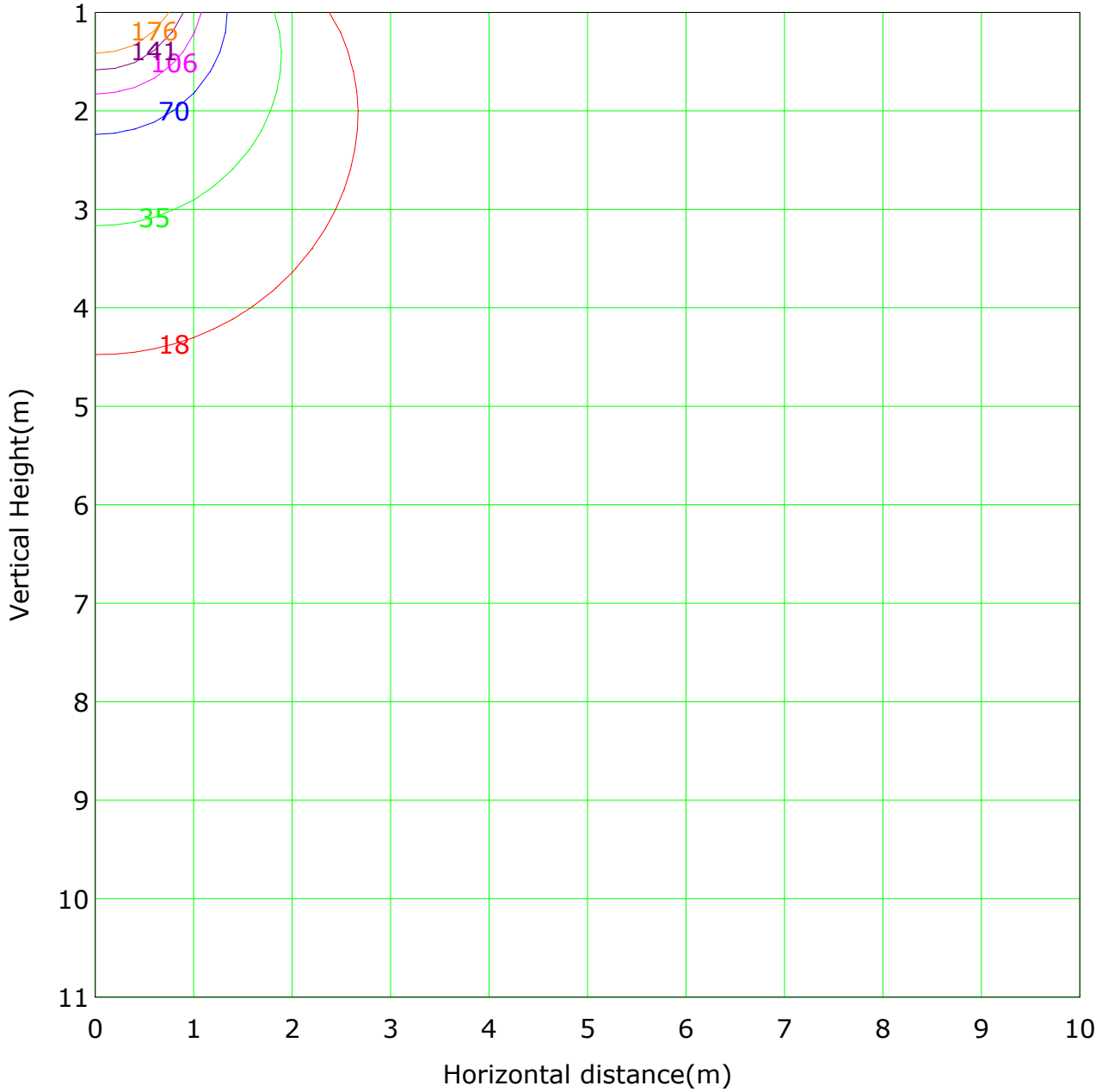
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

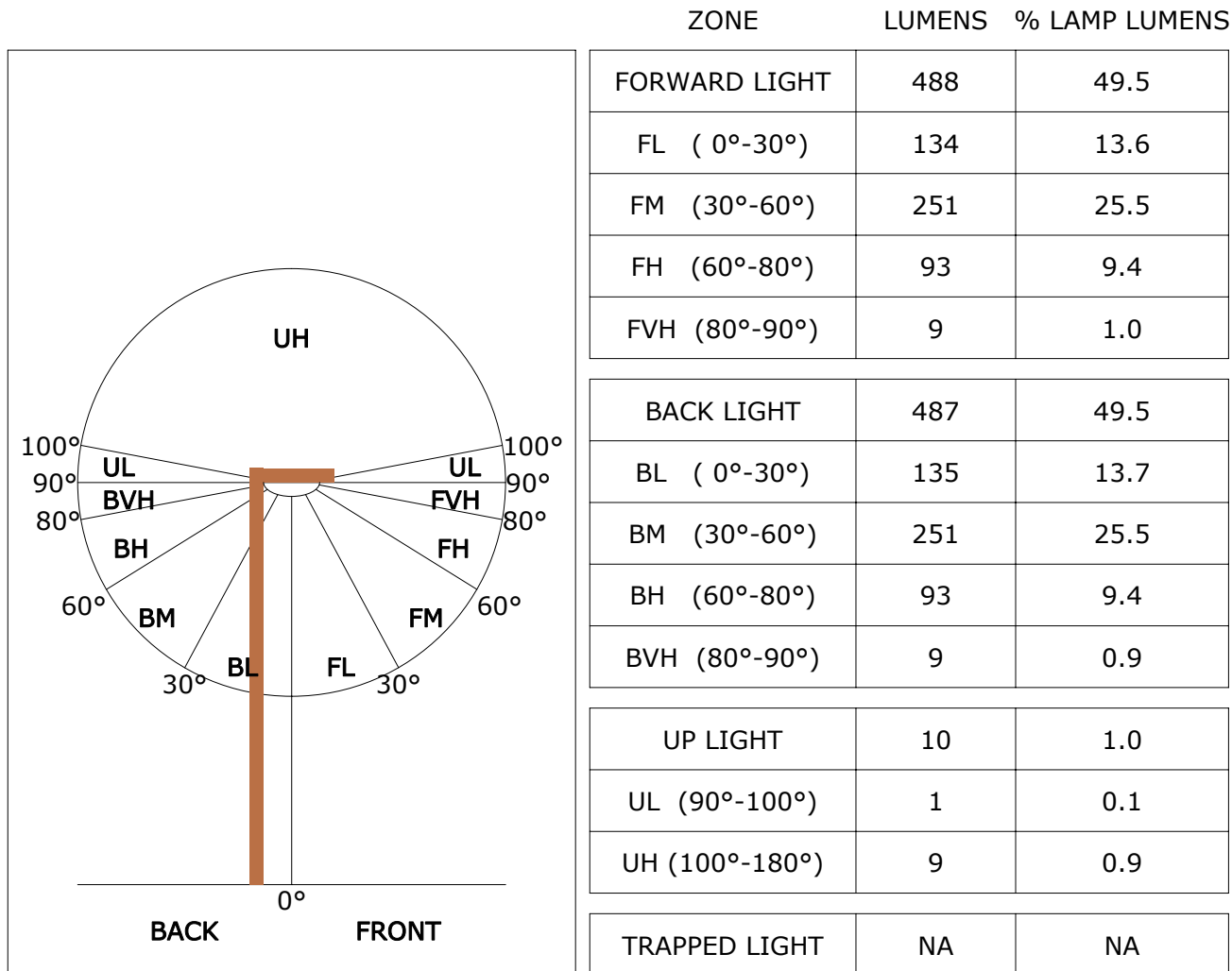


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 351.8 lx
— (5%): 17.6 lx	— (10%): 35.2 lx	
— (20%): 70.4 lx	— (30%): 105.6 lx	
— (40%): 140.7 lx	— (50%): 175.9 lx	
— (100%): 351.8 lx	— (150%): 527.8 lx	

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

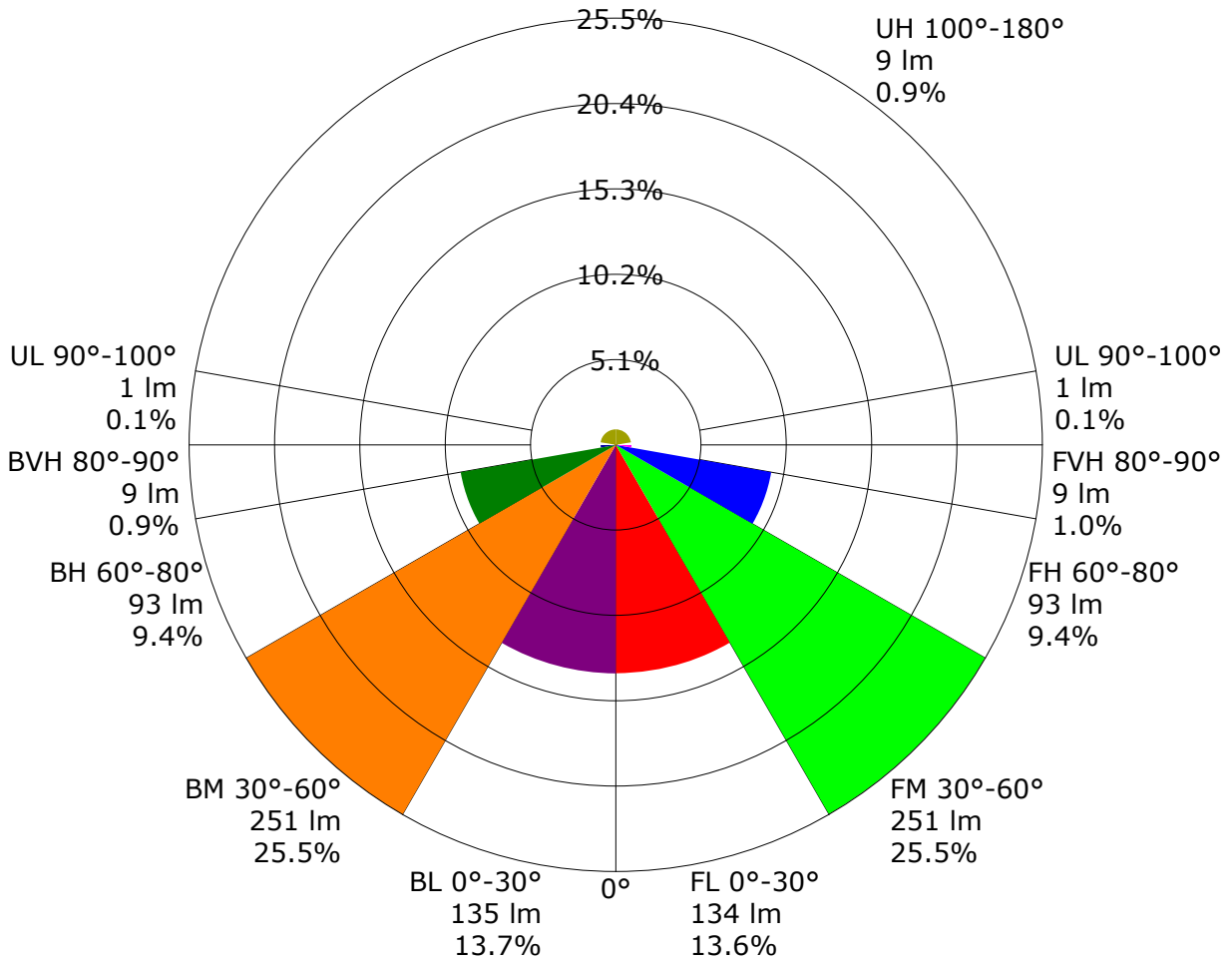


BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U1 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G0

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

LCS Graph



Forward Light

Back Light

Scale= MAX LCS%

Trapped Light:NA,NA

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	348.3	0.3	0.3	0.03	0.03
1.0-2.0	348.2	1.0	1.3	0.10	0.14
2.0-3.0	347.9	1.7	3.0	0.17	0.30
3.0-4.0	347.5	2.3	5.3	0.24	0.54
4.0-5.0	347.0	3.0	8.3	0.30	0.84
5.0-6.0	346.3	3.6	11.9	0.37	1.21
6.0-7.0	345.5	4.3	16.2	0.44	1.65
7.0-8.0	344.6	4.9	21.2	0.50	2.15
8.0-9.0	343.6	5.6	26.7	0.57	2.71
9.0-10.0	342.4	6.2	32.9	0.63	3.34
10.0-11.0	341.0	6.8	39.8	0.69	4.04
11.0-12.0	339.6	7.4	47.2	0.75	4.79
12.0-13.0	338.0	8.0	55.2	0.81	5.60
13.0-14.0	336.3	8.6	63.8	0.87	6.48
14.0-15.0	334.5	9.2	73.0	0.93	7.41
15.0-16.0	332.6	9.7	82.7	0.99	8.40
16.0-17.0	330.5	10.3	93.0	1.04	9.44
17.0-18.0	328.3	10.8	103.9	1.10	10.54
18.0-19.0	326.0	11.3	115.2	1.15	11.69
19.0-20.0	323.5	11.8	127.0	1.20	12.90
20.0-21.0	321.0	12.3	139.4	1.25	14.15
21.0-22.0	318.3	12.8	152.2	1.30	15.45
22.0-23.0	315.5	13.2	165.4	1.34	16.79
23.0-24.0	312.6	13.7	179.1	1.39	18.18
24.0-25.0	309.6	14.1	193.2	1.43	19.61
25.0-26.0	306.5	14.5	207.6	1.47	21.08
26.0-27.0	303.3	14.8	222.5	1.51	22.58
27.0-28.0	299.9	15.2	237.6	1.54	24.12
28.0-29.0	296.5	15.5	253.2	1.57	25.70
29.0-30.0	292.9	15.8	269.0	1.61	27.30
30.0-31.0	289.3	16.1	285.1	1.63	28.94
31.0-32.0	285.5	16.4	301.4	1.66	30.60
32.0-33.0	281.7	16.6	318.0	1.68	32.29
33.0-34.0	277.8	16.8	334.9	1.71	33.99
34.0-35.0	273.9	17.0	351.9	1.73	35.72
35.0-36.0	269.7	17.2	369.0	1.74	37.46

C Plane (°):0.0-360.0: 30.0
 Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	265.5	17.3	386.4	1.76	39.22
37.0-38.0	261.2	17.4	403.8	1.77	40.99
38.0-39.0	256.9	17.5	421.3	1.78	42.77
39.0-40.0	252.5	17.6	439.0	1.79	44.56
40.0-41.0	248.0	17.7	456.6	1.79	46.35
41.0-42.0	243.5	17.7	474.3	1.80	48.15
42.0-43.0	238.8	17.7	492.0	1.80	49.94
43.0-44.0	234.1	17.7	509.7	1.79	51.74
44.0-45.0	229.3	17.6	527.3	1.79	53.53
45.0-46.0	224.5	17.6	544.9	1.78	55.31
46.0-47.0	219.5	17.5	562.3	1.77	57.08
47.0-48.0	214.5	17.3	579.7	1.76	58.84
48.0-49.0	209.5	17.2	596.9	1.75	60.59
49.0-50.0	204.5	17.1	613.9	1.73	62.32
50.0-51.0	199.3	16.9	630.8	1.71	64.03
51.0-52.0	194.1	16.7	647.5	1.69	65.72
52.0-53.0	188.9	16.4	663.9	1.67	67.39
53.0-54.0	183.6	16.2	680.1	1.64	69.04
54.0-55.0	178.3	15.9	696.0	1.62	70.65
55.0-56.0	172.9	15.6	711.6	1.59	72.24
56.0-57.0	167.5	15.3	726.9	1.55	73.79
57.0-58.0	162.0	15.0	741.9	1.52	75.31
58.0-59.0	156.5	14.6	756.5	1.49	76.80
59.0-60.0	150.9	14.3	770.8	1.45	78.25
60.0-61.0	145.4	13.9	784.7	1.41	79.66
61.0-62.0	139.8	13.5	798.2	1.37	81.02
62.0-63.0	134.1	13.0	811.2	1.32	82.35
63.0-64.0	128.5	12.6	823.8	1.28	83.63
64.0-65.0	122.8	12.2	836.0	1.23	84.86
65.0-66.0	117.1	11.7	847.6	1.19	86.05
66.0-67.0	111.3	11.2	858.8	1.14	87.18
67.0-68.0	105.6	10.7	869.5	1.09	88.27
68.0-69.0	99.8	10.2	879.7	1.03	89.30
69.0-70.0	94.1	9.7	889.4	0.98	90.28
70.0-71.0	88.5	9.1	898.5	0.93	91.21
71.0-72.0	82.8	8.6	907.2	0.87	92.09

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 2)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	77.2	8.1	915.2	0.82	92.91
73.0-74.0	71.6	7.5	922.8	0.76	93.67
74.0-75.0	66.0	7.0	929.7	0.71	94.38
75.0-76.0	60.7	6.4	936.2	0.65	95.03
76.0-77.0	55.3	5.9	942.1	0.60	95.63
77.0-78.0	50.1	5.4	947.4	0.54	96.18
78.0-79.0	45.0	4.8	952.3	0.49	96.67
79.0-80.0	40.1	4.3	956.6	0.44	97.11
80.0-81.0	35.3	3.8	960.4	0.39	97.49
81.0-82.0	30.6	3.3	963.7	0.34	97.83
82.0-83.0	26.2	2.9	966.6	0.29	98.12
83.0-84.0	22.0	2.4	969.0	0.24	98.36
84.0-85.0	18.0	2.0	970.9	0.20	98.56
85.0-86.0	14.2	1.5	972.5	0.16	98.72
86.0-87.0	10.6	1.2	973.7	0.12	98.84
87.0-88.0	7.2	0.8	974.4	0.08	98.92
88.0-89.0	4.2	0.5	974.9	0.05	98.96
89.0-90.0	2.0	0.2	975.1	0.02	98.99
90.0-91.0	0.9	0.1	975.2	0.01	99.00
91.0-92.0	0.6	0.1	975.3	0.01	99.00
92.0-93.0	0.7	0.1	975.4	0.01	99.01
93.0-94.0	0.7	0.1	975.4	0.01	99.02
94.0-95.0	0.7	0.1	975.5	0.01	99.03
95.0-96.0	0.7	0.1	975.6	0.01	99.03
96.0-97.0	0.8	0.1	975.7	0.01	99.04
97.0-98.0	0.7	0.1	975.7	0.01	99.05
98.0-99.0	0.8	0.1	975.8	0.01	99.06
99.0-100.0	0.8	0.1	975.9	0.01	99.07
100.0-101.0	0.9	0.1	976.0	0.01	99.08
101.0-102.0	0.9	0.1	976.1	0.01	99.09
102.0-103.0	0.9	0.1	976.2	0.01	99.10
103.0-104.0	0.9	0.1	976.3	0.01	99.11
104.0-105.0	1.0	0.1	976.4	0.01	99.12
105.0-106.0	1.0	0.1	976.5	0.01	99.13
106.0-107.0	1.0	0.1	976.6	0.01	99.14
107.0-108.0	1.1	0.1	976.7	0.01	99.15

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.1	0.1	976.9	0.01	99.16
109.0-110.0	1.1	0.1	977.0	0.01	99.18
110.0-111.0	1.2	0.1	977.1	0.01	99.19
111.0-112.0	1.2	0.1	977.2	0.01	99.20
112.0-113.0	1.3	0.1	977.4	0.01	99.21
113.0-114.0	1.3	0.1	977.5	0.01	99.23
114.0-115.0	1.3	0.1	977.6	0.01	99.24
115.0-116.0	1.4	0.1	977.8	0.01	99.25
116.0-117.0	1.4	0.1	977.9	0.01	99.27
117.0-118.0	1.5	0.1	978.0	0.01	99.28
118.0-119.0	1.6	0.2	978.2	0.02	99.30
119.0-120.0	1.6	0.2	978.3	0.02	99.31
120.0-121.0	1.6	0.2	978.5	0.02	99.33
121.0-122.0	1.7	0.2	978.6	0.02	99.35
122.0-123.0	1.7	0.2	978.8	0.02	99.36
123.0-124.0	1.7	0.2	979.0	0.02	99.38
124.0-125.0	1.7	0.2	979.1	0.02	99.39
125.0-126.0	1.8	0.2	979.3	0.02	99.41
126.0-127.0	1.8	0.2	979.4	0.02	99.43
127.0-128.0	1.8	0.2	979.6	0.02	99.44
128.0-129.0	1.9	0.2	979.8	0.02	99.46
129.0-130.0	1.9	0.2	979.9	0.02	99.47
130.0-131.0	2.0	0.2	980.1	0.02	99.49
131.0-132.0	2.0	0.2	980.2	0.02	99.51
132.0-133.0	2.0	0.2	980.4	0.02	99.52
133.0-134.0	2.0	0.2	980.6	0.02	99.54
134.0-135.0	2.1	0.2	980.7	0.02	99.56
135.0-136.0	2.1	0.2	980.9	0.02	99.57
136.0-137.0	2.1	0.2	981.0	0.02	99.59
137.0-138.0	2.2	0.2	981.2	0.02	99.60
138.0-139.0	2.2	0.2	981.4	0.02	99.62
139.0-140.0	2.2	0.2	981.5	0.02	99.64
140.0-141.0	2.2	0.2	981.7	0.02	99.65
141.0-142.0	2.2	0.2	981.8	0.02	99.67
142.0-143.0	2.2	0.1	982.0	0.02	99.68
143.0-144.0	2.2	0.1	982.1	0.01	99.70

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector:

Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	2.3	0.1	982.3	0.01	99.71
145.0-146.0	2.3	0.1	982.4	0.01	99.73
146.0-147.0	2.3	0.1	982.5	0.01	99.74
147.0-148.0	2.4	0.1	982.7	0.01	99.76
148.0-149.0	2.4	0.1	982.8	0.01	99.77
149.0-150.0	2.4	0.1	983.0	0.01	99.78
150.0-151.0	2.4	0.1	983.1	0.01	99.80
151.0-152.0	2.5	0.1	983.2	0.01	99.81
152.0-153.0	2.4	0.1	983.3	0.01	99.82
153.0-154.0	2.4	0.1	983.5	0.01	99.83
154.0-155.0	2.5	0.1	983.6	0.01	99.85
155.0-156.0	2.5	0.1	983.7	0.01	99.86
156.0-157.0	2.5	0.1	983.8	0.01	99.87
157.0-158.0	2.5	0.1	983.9	0.01	99.88
158.0-159.0	2.5	0.1	984.0	0.01	99.89
159.0-160.0	2.5	0.1	984.1	0.01	99.90
160.0-161.0	2.6	0.1	984.2	0.01	99.91
161.0-162.0	2.6	0.1	984.3	0.01	99.92
162.0-163.0	2.6	0.1	984.4	0.01	99.93
163.0-164.0	2.6	0.1	984.4	0.01	99.93
164.0-165.0	2.6	0.1	984.5	0.01	99.94
165.0-166.0	2.6	0.1	984.6	0.01	99.95
166.0-167.0	2.6	0.1	984.7	0.01	99.96
167.0-168.0	2.7	0.1	984.7	0.01	99.96
168.0-169.0	2.7	0.1	984.8	0.01	99.97
169.0-170.0	2.7	0.1	984.8	0.01	99.97
170.0-171.0	2.7	0.0	984.9	0.00	99.98
171.0-172.0	2.7	0.0	984.9	0.00	99.98
172.0-173.0	2.8	0.0	985.0	0.00	99.99
173.0-174.0	2.8	0.0	985.0	0.00	99.99
174.0-175.0	2.8	0.0	985.0	0.00	99.99
175.0-176.0	2.8	0.0	985.1	0.00	100.00
176.0-177.0	2.8	0.0	985.1	0.00	100.00
177.0-178.0	2.8	0.0	985.1	0.00	100.00
178.0-179.0	2.8	0.0	985.1	0.00	100.00
179.0-180.0	2.8	0.0	985.1	0.00	100.00

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1800B
 Distance: 8.038 m
 Humidity:
 Inspector: